

DRAC, P.; JAGER, J.; MAGURSKY, V.

Gestation changes of the pelvic ligaments and their relation to vaginal and uterine prolapse. Cesk. gyn. 26[40] no.6:418-421 J1 '61.

1. I gyn. por. klin. UJEvP v Brne, prednosta prof. MUDr. L. Havlasek,
OUNZ Jasek, OUNZ Martin.
(PREGNANCY physiol.) (PELVIS physiol.)
(UTERINE PROLAPSE etiol.)

DRAC, P.; SLADEK, M.; KOUKAL, J.; KYPR, Z.

Shirodkarov's operation in threatened abortion and premature labor. Cesk. gyn. 28 no.5:316-322 Je '63.

1. I gyn.-por. klin. lek. fak. UJEP v Brne, prednosta prof. dr.
L. Havlasak Gyn.-por. odd. I. mest. nemocnice v Brne, vedouci
MUDr. M. Nemec.

(ABORTION, THREATENED) (PREGNANCY COMPLICATIONS)
(LABOR) (INFANT, PREMATURE) (VAGINA)

DRAC, P.

CZECHOSLOVAKIA

SLADEK, M., MD; DRAC, P., MD.

First Obstetrics-Gynecological Clinic UJEvP (I. porod-
nicko-gynekologicka klinika UJEvP), Brno

Prague, Prakticky lekar, No 9, 1963, pp 326-327

"Method of Contraception with Views on the Use of Pessary
Jelly."

PONTUCH, F.; GAZAREK, F.; ~~DRAC, P.~~; POKORNY, J.; UHER, M.; HRADECKY, L.;
KOHOUTEK, M.; ZIDEK, J.; CECHE, E.; CERVENKA, J.; NEMEC;
NOVAKOVA, J.

Perinatal mortality in premature labor. Cesk. gynek. 29
no.6:459-466 Ag '64.

1. I. gyn.-por. klin. Lek. fak. University Komenskeho v
Bratislave (prednosta prof. dr. S. Stefanik); Gyn.-por.
klin. Lek. fak. Palackeho University v Olomouci (prednosta
doc dr. F. Gazarek, CSc.); Gyn.-por. odd. Mestskeho ustavu
narodniho zdravi v Brne (veduci MUDr. Nemec); I. gyn.-por.
klin. Lek. Fak. University J.E. Purkyne v Brne (prednosta
prof. dr. L. Havlasek [deceased]); II. gyn.-por. klin. Lek.
fak. University J.E. Purkyne v Brne (prednosta doc. dr. M. Uher,
CSc.); Gyn.-por. klin. Lek. fak. Karlovy University v Plzni
(prednosta prof. dr. V. Mikolas); I. gyn.-por. klin. Fak. vseob.
lek. Karlovy University v Prahe (prednosta prof. dr. K. Klaus,
DrSc.); Gyn.-por. klin. Lek. fak. University P.J. Safarika v
Kosiciach (prednosta doc. dr. K. Poradovsky, CSc.).

NEMEC, M.; DRAC, P.; SEKALA, M.

Does influenza have an influence on premature labor? Cesk.
gynek. 29 no.6:567-569 Ag '64.

1. Gyn̄-por. odd. I. mest. nemocnice Mestskeho ustavu narodniho
zdravi v Brne (vedouci MUDr. M. Nemecek) a Statisticke odd.
Krajskeho narodneho vyboru v Brne (vedouci inz. M. Sekala).

DRAC, P.

New ovulation-inducing drugs. Cesk. gynek. 30 no.8:630 0 '65.

YUGOSLAVIA

DRACA, P., M. ILIC, and G. MRVOS, Birth Clinic (Klinika za Porodiljstvo), Faculty of Veterinary Medicine (Veterinarski Fakultet), Belgrade.

"A Case of Urolithiasis in a Female Dog."

Belgrade, Veterinarski Glasnik, Vol 17, No 6, 1963, pp 551-553.

Abstract: Authors' German summary modified This rare case in a female dog eight years old was diagnosed definitively through laparotomy. The operation involved Vesicotomy dorsalis s. superior. The dog patient was pronounced healed and healthy after 10 days.

Photograph, eight references (mainly German).

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YUGOSLAVIA

V. MILJKOVIC, N. MLADENOVIC, P. DRACA, G. MRVOS, V. JOVANOVIC, D. NIKODIJEVIC, V. STOJADINOVIC and A. DAVIDOVIC, Clinic for Reproduction Sterility and Artificial Insemination of Veterinary Faculty (Klinika za porodiljstvo, sterilitet i vestacko osemenjavanje Veterinarskog fakulteta) Belgrade.

"Ten Years of Artificial Insemination of Cattle in Serbia."

Belgrade, Veterinarski Glasnik, Vol 17, No 4, 1963; pp 315-322.

Abstract [German summary modified]: Gratified review of excellent results achieved with artificial insemination in Serbian and Yugoslav cattle. In Yugoslavia in 1961, 783,875 cows were inseminated by 608 bulls from 42 artificial insemination centers. Detailed statistical data by 7 breeds; 13 Serbian centers; many technical details and comments. One urgent need now is for a specialized national scientific journal dealing with bovine sterility and artificial insemination. Eighteen Yugoslav references.

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KOVACEV, M., habil, dr.; DRACA, P., dr.; GAVANSKI, K., dr.

Pros and cons of vaginal examination in labor. Med.Glas.
17 no.11/12:458-460 N-D '63.

1. Glavna nokrajinska bolnica u Novom Sadu -- Ginekolosko--
porodajno podeljenje (Nacelnik: prim. dr. S. Durisic).

DRACA, Petar; GAVRILOVIC, Zivojin

Pelvic dimensions in women in Voivodina. Med. pregl. 17 no.8:
425-428 '64.

1. Klinika za ginekologiju i akuserstvo Klinicke boln'ce u
Novom Sadu (Nacelnik: Prof. dr. Slavko Djuriscic) ; Zavod za
biologiju Medicinskog fakulteta u Novom Sadu (Sef: Doc. dr.
Zivojin Gavrilovic).

DRAGA, Petar.

The role of the forceps in modern obstetrics. Med. pregl. 17
no.10:571-575 '64.

1. Klinika za ginekologiju i akuserstvo Klinicke bolnice u
Novom Sadu (Nacelnik: Prof. dr. Slavko Djurasic).

30(1)

YUG/1-59-3-3/57

AUTHOR: Drače, Džemal, Engineer and State Consultant (Beograd)

TITLE: Economic Trends in 1958 and the Economic Development Plan for 1959 (Kretanje privrede u 1958 godini i plan privrednog razvoja za 1959 godinu). Agriculture (Poljoprivreda).

PERIODICAL: Tehnika, 1959, Nr 3, pp 354-358 (YUG)

ABSTRACT: The article reviews the 1958 agricultural production by individual and cooperative farms, increases in the production of certain branches of agriculture and details and figures of the 1959 plan which calls for increased mechanization, greater consumption of fertilizers and big investments for various melioration works, i.e. Danube-Tisa-Danube hydrosystem, in Macedonia, in the Kosovo-Metohija region and in Montenegro. Agricultural production in 1958 shows a marked increase in the production of certain branches of agriculture, in spite

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YUG/1-59-3-3/57

Economic Trends^o in 1958 and the Economic Development Plan for 1959.
Agriculture.

of unfavourable weather. This increase was due to the application of new technological methods and the import of Italian wheat which proved suitable for domestic soil and climatic conditions. In 1958 the consumption of fertilizers was nearly 1,200,000 tons. In 1957 and 1958 agriculture received 16,000 new tractors, 1,100 wheat combines and over 54,000 tons of auxiliary machinery and equipment. The 1959 plan emphasizes the development of 2 main agricultural branches, crops and sheep-raising. 6,600 new tractors, 1,500 new combines and 37,000 tons of auxiliary agricultural machinery will be purchased from domestic and foreign sources. By the end of 1959 agriculture will have a total of 31,000 tractors, and about 3,500 combines. In 1959 the consumption of fertilizers is expected to reach 1,500,000 tons. The supplies of basic materials will be drawn mainly from foreign sources

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YUG/1-59-3-3/57

Economic Trends in 1958 and the Economic Development Plan for 1959.
Agriculture.

while it is hoped that the increased domestic production of agricultural equipment will satisfy most of the needs. The big imports point to the necessity for a rational use of imported materials which can best be achieved by encouraging cooperation between individual farmers and their "zadruga" (producers cooperatives). There are 2 tables.

ASSOCIATION: Savezni zavod za privredno planiranje (Federal Institute for Economic Planning), Beograd.

SUBMITTED: December 11, 1958.

Card 3/3

DRACE, Dzamal, ing. (Beograd, Kneza Milosa 20)

Agricultural production and its conditions in 1961. Tehnika Jug 17
no.1:9-14. Ja '62.

1. Drzavni savetnik u Saveznom zavodu za privredno planiranje,
Beograd.

(Yugoslavia--Agriculture)

DRACE, Dzemal, inz., drzavni savetnik (Save Kovacevica 3, I ulaz, Beograd)

Production and consumption of artificial fertilizers. Tehnika
Jug 17 no.5:821-828 My '62.

1. Savezni zavod za privredno planiranje, Beograd.

DRACE, Dzemal, inz. (Beograd, Save Kovacevica 3)

Conditions and prospects of agricultural production in 1963.
Tehnika Jug 18 no.3:416-422 Mr '63.

1. Drzavni savetnik u Saveznom zavodu za privredno planiranje,
Beograd.

RUMANIA/Cultivated Plants - Grains.

11-4

Abs Jour : Ref Zhur - Biol., No 9, 1953, 30251

Author : Dracea, I., Carausu, V.

Inst : Rumanian Academy, Baza Timisoara

Title : Regionalization of Rice Varieties in the Western Part of
the Rumanian People's Republic.

Orig Pub : Studii si cercetari stiint, Acad. RFR, Baza Timisoara. Ser.
stiinte agric, 1956, 3, No 3-4, 145-173.

Abstract : Comparative testing of 60 varieties and strains of different
origins in the rayons of Timisor Zabran and Salont
which took place in 1951-1955 is described in this paper.
A classification of varieties, according to how early
they ripen and also in accordance with the quality of the
grain is given. The best varieties are indicated.

Card 1/1

- 52 -

ZEMLYANSKIY, N.I.; DRACH, B.S.

Complexometric determination of phosphorus. Zhur.anal.khim. 16
no.5:653-654 S-O '61. (MIRA 14:9)

1. Franko L'vov State University.
(Phosphorus--Analysis)

ZEMLYANSKIY, N.I.; PRIB, O.A.; DRACH, B.S.

Reaction of potassium O,O-dialkyldithiophosphates with aromatic sulfonyl chlorides. Zhur. ob. khim. 31 no.3:880-883 Mr '61.
(MIRA 14:3)

1. L'vovskiy gosudarstvennyy universitet.
(Sulfonyl chloride) (Phosphorodithioic acid)

ZEMLYANSKIY, N.I.; DRACH, B.S.; prinalni uchastiye: GOLECHEK, A.A.;
YURZHENKO, S.A.

Synthesis of salts of some O,O-diaryldithiophosphoric acids. Zhur.-
ob.khim. 32 no.6:1962-1966 Ja '62. (MIRA 15:6)
(Phosphorodithioic acid)

ZHMUROVA, I.N.; DRACH, B.S.

Trichlorophosphazo alkyls. Zhur. ob. khim. 34 no. 5:1444-
1446 My '64. (MIRA 17:7)

1. Institut organicheskoy khimii AN UPrSSR.

"APPROVED FOR RELEASE: Friday, July 28, 2000

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APPROVED FOR RELEASE: Friday, July 28, 2000

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ZHMUROVA, I.N.; DRACH, B.S.

Trichlorophosphazo alkyls. Zhur. ob. khim. 34 no.9:3055-3060
S '64. (MIRA 17:11)

1. Institut organicheskoy khimii AN UkrSSR.

ZHMUROVA, I.N.; DRACH, B.S.; KILSANOV, A.V.

Chlorination of hydrocarbon radicals of aliphatic trichloro-
phosphazo compounds by phosphorus pentachloride. Ukr.khim.zhur.
31 no.2:223-224 '65. (MIRA 18:4)

1. Institut organicheskoy khimii AN UkrSSR.

L 21761-66 ENT(m) RM	
ACC NR: AP6012649	SOURCE CODE: UR/0079/65/035/002/0344/0350
AUTHOR: <u>Zhmurova, I. N.; Drach, B. S.; Kirsanov, A. V.</u>	
ORG: <u>Institute of Organic Chemistry, AN UkrSSR (Institut organicheskoy khimii AN UkrSSR)</u>	
TITLE: Acid chlorides of <u>trichlorophosphazo-trichlorophosphazo-alpha-carboxyalkyls</u>	
SOURCE: Zhurnal obshchey khimii, v. 35, no. 2, 1965, 344-350	
TOPIC TAGS: amino acid, chlorination, organic phosphorous compound, chloride, phosphorous chloride	
ABSTRACT: When two or more moles of phosphorus pentachloride react with α -aminoacids, acid chlorides of trichlorophosphazo- α -carboxylalkyls are obtained. In most cases the phosphazo-reaction is accompanied by chlorination of the alkyl group of the amino acid, where usually not less than two chlorine atoms are in the alkyl group. The mean values of atomic refractions of nitrogen for acid chlorides of trichlorophosphazo- α -carboxyalkyls and trichlorophosphazoalkyls were calculated. Orig. art. has: 9 formulas and 2 tables. [JPRS]	
SUB CODE: 07 / SUBM DATE: 12Dec63 / ORIG REF: 007 / OTH REF: 003	
Card 1/1	UDC: 547.466+546.185'131

ZHMUROVA, I.N.; DRACH, B.S.; KIRSANOV, A.V.

Hydrolysis and acidolysis of trichlorophosphazene alkyls and
trichlorophosphazene- α -carboxyl alkyl chlorides. Zhur. ob.
khim. 35 no.6:1018-1022 Je '65. (MIRA 18:6)

1. Institut organicheskoy khimii AN UkrSSR.

L 04843-67 EWP(j)/EWT(m) RM

ACC NR: AP7000244

SOURCE CODE: UR/0079/66/036/004/0760/0760

AUTHOR: Kozlov, E. S.; Drach, B. S.

ORG: Institute of Organic Chemistry, AN SSSR (Institut organicheskoy khimii AN SSSR)

"Some Conversions of Trichlorophosphazomethyl Dimer"

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 4, 1966, p 760

Abstract: Trichlorophosphazomethyl dimer is converted by photochemical chlorination to trichlorophosphazotrichloromethyl monomer -- the most simple representative of the trichlorophosphazoperchloroalkyls. When trichlorophosphazotrichloromethyl monomer is treated with sulfur dioxide or an equimolar amount of formic acid, the known N-dichlorophosphonyliminophosgene is formed in quantitative yield. The dimer of trichlorophosphazomethyl is readily fluorinated by antimony trifluoride and gives the previously difficulty accessible 2,2,2,4,4,4-hexafluoro-1,3-dimethyloxydiphosphazane in high yield. The authors thank A. V.

Kirsanov for assistance and advice in this work. [JPRS: 37,177]

TOPIC TAGS: chlorinated organic compound, fluorinated organic compound, organic azo compound

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UDC: 547.419.1

L 04843-67

ACC NR: AP7000244

SUB CODE: 07 / SUBM DATE: 25 Sep 65 / ORIG REF: 002 / OTH REF: 002

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nd
Card 2/2

FEL'DMAN, Kh.I., kand. med. nauk; PREYS, G.R.; DRACH, G.S.

Meckel's diverticulum and intestinal invagination. Kaz. med. zhur.
no.6:57-58 '62. (MIRA 17:5)

1. Klinika khirurgii detskogo vozrasta (zav. - doktor med. nauk A.R. Shcurinok) Kiyevskogo meditsinskogo instituta na baze khirurgicheskogo otdela detskoy spetsializirovannoy klinicheskoy bol'nitsy (glavnyy vrach - T.P. Novikova).

DRACH, G.S.

Hemorrhagic ulcer of Meckel's diverticulum in children.
Khirurgiia 39 no.10:67-72 O '63. (MIRA 17:9)

1. Iz kliniki khirurgii detskogo vozrasta (zav.- prof. A.R. Shurinok) na baze Gorodskoy spetsializirovannoy klinicheskoy bol'nitsy (glavnyy vrach T.P. Novikova), Kiyev.

DRACH, L.Ye.

Exhaustion of acid vapors from pickling baths. Mashinostroitel'
no.1:33 Ja '63. (MIRA 16:2)
(Metals—Pickling—Safety measures)

EYBER, N.S.; DRACH, V.I.

Evaluation of new simple methods for determining the bursting
of waters. Akush. i gin. no.1:76-78 '63. (MIRA 17:6)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. A.M. Foy)
Lechebnogo fakul'teta Saratovskogo meditsinskogo instituta.

DRACH, Ye. M.

Penicillin - Therapeutic Use

Penicillin treatment of calves affected by lobar pneumonia complicated by sepsis.,
Veterinariia, 29, no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 195~~7~~, Unclassified.

2

ZINCHENKO, A.; ^(M.)DRACH, Ye.; KUTSEL', Ye.

Using biogenic stimulants in fattening cattle. Mias.ind.SSSR
27 no.1:53-56 '56. (MLRA 9:6)

1.Starshiy vetvrach Ministerstva promyshlennosti myasnykh i
molochnykh produktov USSR (for Zinchenko).2.Glavnyy vetvrach
Karlovskey veterinarnoy lechebnitsy Poltavskoy oblasti (for
Drach).3.Glavnyy vetvrach Ukrglavskotootkorma (for Kutsel').

(Beef cattle--Feeding and feeding stuffs)

USSR / General Problems of Pathology. Transplantation U-2
of Tissues and Tissue Therapy.

Abs Jour: Ref Zhur-Biol., No 15, 1958, 70736.

Author : ~~Drach E. M.~~

Inst : Not given.

Title : Tissue Therapy in Actinomycosis.

Orig Pub: Sots. tvarinnitstvo, 1957, No 9, 58-59.

Abstract: Treatment of actinomycosis of large horned cattle and pigs was made by subcutaneous injection of cattle and horse blood preserved for seven days at a temperature of two to four degrees Centigrade. Best effects were obtained by a combination of tissue therapy with injections of biochinol or penicillin. Through use of this method, 72 head of large horned cattle and nine pigs were cured of the disease. -- Ts. S. Lemberg

Card 1/1

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DRACH, Ye.M., vet. vrach; ZINCHENKO, A.V., vet. vrach; KUTSEL', Ye. N.,
vet. vrach

Important potential for improving meat production. Veterinariia 35
no. 7:84-85 J1 '58. (MIRA 11:7)

1. Myasokontrol'naya stantsiya Poltavskoy oblasti(for Drach).
2. Ukrainskaya adademiya sel'skokhozyaystvennykh nauk(for
Zinchenko). 3. Kiyevskiy oblzagotskot(for Kutsel').
(Tissue extracts)

DRACH, Ye.M., vetvrach; PETRICHENKO, V.T., veterinarnyy fel'dsher

Important potential for increasing the productivity of stock-breeding. Veterinariia 36 no.11:75-76 N '59 (MIRA 13:3)

1. Karlovskaya myasokontrol'naya stantsiya, Poltavskoy oblasti.
(Serum) (Stock and stockbreeding)

DRACHANOVA, L.A.

Research in the field of the preservation of fruit and berries for
use in the confectionery industry. Trudy BNIIPPT no.4:83-91 '61.
(MIRA 17:10)

ACC NR: AP7000358

(N)

SOURCE CODE: UR/0413/66/000/022/0124/0125

AUTHOR: Gof, V. P.; Drachenin, Yq. A.; Dubinin, V. F.; Shmelev, I. M.

ORG: none

TITLE: A sensor for measuring the direction and velocity of flow. Class 42, No. 188765 [announced by the Central Industrial-Engineering Enterprise (TSentral'noye proizvodstvenno-tekhnicheskoye predpriyatiye TSENTROENERGOMETALLURGPROM)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. '22, 1966, 124-125

TOPIC TAGS: flow measurement, flow rate, flow analysis, electric measuring instrument, flow velocity, measuring instrument

ABSTRACT: An Author Certificate has been issued for a sensor to measure flow direction and velocity, consisting of a pickup in the form of a directionally controlled duct with two thermoelements. A potentiometric measuring instrument, electrically connected with a light and audio signaling system, is connected to the circuit of

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UDC: 532.57.082.6

ACC NR: AP7000358

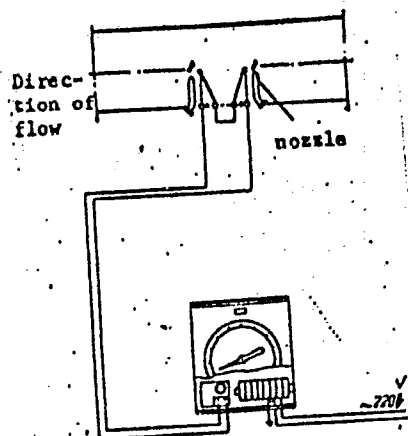


Fig. 1. Direction and velocity flow sensor.

the thermoelements (see Fig. 1). To increase its measuring accuracy by increasing the temperature drop at low speeds and high or low flow temperatures, the sensor is equipped with two nozzles for the continuous feeding of a stabilized stream of gas or liquid, which changes the temperature of one of the thermoelements. Orig. art. has: 1 figure.

SUB CODE: 14, 20/ SUBM DATE: 19Aug65/ ATD PRESS: 5108

Card 2/2

PLATONOV, Yevgeniy Vladimirovich, prof.; DRACHENKO, Boris Fedotovitch,
dots.; GOLOVKO, L.N., red.; UL'YANETS, A.A., tekhn.red.

[Principles of construction work] Osnovy stroitel'nogo dela.
Kiev, Gosstroizdat USSR, 1963. 243 p. (MIRA 17:3)

DRACHENKO, I. (g. Tashkent)

Flying an An-2 airplane at night. Grashd. av. 14 no. 1:11 Ja '57.
(MLRA 10:4)

1. Pilot-instruktor uchebno-trenirovochnogo podrazdeleniya.
(Airplanes--Piloting)

DRACHEV, A.

Electric equipment for diesel trucks. Avt.transp. 34 no.2:29 F '56.
(Motortrucks--Electric equipment) (MLRA 9:7)

DRACHEV, Boris Semenovich; VADETSKIY, B.A., red.; LAVRENOVA, N.B., tekhn.
red.

[Toward the eastern shores] K beregam Vostoka. Moskva, Izd-vo
"Morskoi transport," 1961, 96 p. (MIRA 14:10)

1. Pervyy pomoshchnik kapitana parokhoda "Rodina" (for Drachev).
(Voyages and travels)

DRACHEV, D.

Short-wave radio competition on June 2d. p.5.
(RADIO I TELEVIZIIA, Vol. 6, no. 7, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

DRACHEV, D.

"The Place of the Radio Short-Wave Section in the Radio Club,"
p. 11 (Radio I Televiziia, Vol. 7, No. 6, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 11,
Nov. 1958

DRACHEV, Gennadiy Grigor'yevich; CHAPSKIY, O.U., redaktor; VOZOLAGINA,
S.D., tekhnicheskiiy redaktor

[Using storage batteries in agriculture] Eksploatatsiya akkumulia-
torov v sel'skom khoziaistve. Moskva, Gos.izd-vo selkhoz. lit-ry,
1956. 87 p. (MIRA 9:7)
(Storage batteries)

8(1)

PHASE I BOOK EXCERPTATION

SOV/2790

Drachev, Gennadiy Grigor'yevich, and Lev Aleksandrovich Nikolayev

Akkumulyatory podvizhnogo sostava i ikh obsluzhivaniye (Rolling Stock Storage Batteries and Their Maintenance) Moscow, Transzheldorizdat, 1959. 123 p. 10,000 copies printed.

Ed. L.A. Nikolayev, Professor, Doctor of Chemical Sciences; Ed. (Inside book): I.A. Belyayev, Engineer; Tech. Ed.: P.A. Khitrov.

PURPOSE: The book is intended for locomotive crews and repair crews of electric locomotive, Diesel-electric locomotive, and railroad car depots, who are connected with the operation of storage batteries of the railroad rolling stock.

COVERAGE: The book describes the various types of storage batteries used in railroad rolling stock. Problems of their preparation for operation, rules for maintenance and repair, and also faults occurring in the operation and methods of their elimination are described. There is a short historical description of their development. There is a short historical description of the development of storage batteries. The following contemporary Soviet scientists, physical chemists, and electro-chemists, who contributed to the theory and technology of storage batteries are

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Rolling Stock Storage Batteries (Cont.)

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mentioned; V.A. Kistyakovskiy, N.A. Izgaryshev, S.V. Gorhachev, A.N. Frunkin, and others. There are no references.

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Rolling Stock Batteries (Cont.)

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AVAILABLE: Library of Congress (TF368.D7)

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JP/gap
1-28-60

DRACHEV. I., Lt Col

Listed as coauthor, with Maj I. VAGANOV, of article, "The Concern Shown by Air Force Unit Komsomol Organization Over Improving the Technical Knowledge of Personnel," published in Propagandist i Agitator, No 20, 1953, of the Main Political Administration, Ministry of Defense USSR. (Krasnaya Zvezda, 1 Nov 53)

SO: Sum 145, 1 June 1954

FRIDLENDER, I.G.; DRACHOV, I.P.

Fundamentals for calculating allowances for securing the functional interchangeability of machines, instruments and their parts. Vzaim. i tekhn. izm. v mashinost'r.; nauch.-tekh. sbor. no.4:68-93 '64 (MIRA 18:1)

DRACHEV, Iv.

DRACHEV, Iv.

Certain difficulties in diagnosis of benign leptospirosis. Suvrem.
med., Sofia 5 no.2:65-69 1954.

1. Is Garnisonia hospital, Plovdiv.
(LEPTOSPIROSIS, diagnosis.)

DRACHEV, Iv.

DRACHEV, Iv.; SHISHMANOV, D.

Clinical possibilities of diagnosis of Q fever. Sovrem. med.,
Sofia 5 no.2:117-120 1954.

1. Iz terapevtichnogo otdeleniia pri Garnizoniia gospiial, Plovdiv.
(Q FEVER, diagnosis,)

ZOGRAFSKI, B.; DRACHEV, Iv.; TOLEV, Iz.; MITROVA, D.

Nutritional photodermatoses caused by herbs in Korea. Suvrem. med.,
Sofia 8 no.3:11-19 1957.

1. Iz Bulgarskata bolnitsa v Korei (Gl. lekar: d-r G Mitrov)
(SKIN DISEASES, etiology and pathogenesis,
photodermatosis caused by ingestion of herbs in Koreans (Bul))
(LIGHT, injurious effects,
same)
(PLANTS,
same)

TERZIEV, G.; ZOGRAFSKI, B.; DRACHEV, Iz.; MITROVA, D.; TSVETKOV, Dr.

Clinical considerations on pulmonary distomiasis in Korea. Suvrem.
med. Sofia 8 no.3:19-31 1957.

1. Iz Bulgarskata bolnitsa v Koreia. (Gl. lekar: G. Mitrov)
(DISTOMIASIS, epidemiology,
lungs, in Korea (Bul))
(LUNG DISEASES, epidemiology,
distomiasis in Korea (Bul))

DRACHEV, I

TERZIYEV, G.; ZOGRAFSKI, B.; DRACHEV, I.; MITROVA, D.; TSVETKOV, Dr.

Clinical aspects of pulmonary distomiasis (paragonimiasis). Klin.
med. 35 no.12:60-65 D '57. (MIRA 11:2)

1. Iz bolgarskoy bol'nitsy v Koreyskoy Narodnoy Demokraticheskoy
Respublike (glavnyy vrach G.Mitrov) i kafedry propedevtiki vnutren-
nikh bolezney meditsinskogo instituta imeni I.P.Pavlova v Plavdive
(zav. kafedroy - dotsent A.Mitrov)

(DISTOMIASIS

lungs, clin. manifest. (Rus))

(LUNG DISEASES,

distomiasis, clin. aspects (Rus))

KESSENIKH, V.N.; GUSEV, V.D., redaktor; DRACHEV, L.A., redaktor.

[Propagation of radio waves] Rasprostraneniye radiovoln. Moskva, Gos.
izd-vo tekhniko-teoret. lit-ry, 1952. 488 p. (MLRA 7:6)
(Ionospheric radio wave propagation)

"APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R0004111100

APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R00041111001

Drachev, L. A.

109-10-2/19

AUTHORS: Drachev, L.A., and Berezin, Yu.V.

TITLE: Influence of the Large Irregularities of the F₂-layer
on its Radio Wave Reflection Coefficient (Vliyaniye
bol'shikh neodnorodnostey sloya F₂ na koeffitsiyent
otrazheniya radiovoln)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.II, No.10,
pp. 1234 - 1239 + 1 plate(US\$)

ABSTRACT: A strict solution of the problem of the reflection of
radio waves from a horizontally non-homogeneous, ionospheric
layer is rather complicated, but it is possible to make a
quantitative estimate of the amplitude and phase of the re-
flected wave by means of a comparatively simple theory. For
this purpose, it is assumed that the phase of the reflected
wave is determined by the length of the ray and the amplitude
is given by the curvature of the surface at the point of the
reflection. The reflecting surface is in the form of a sinus-
oidal cylinder, described by Eq.(1) where h is the average
height of the reflecting surface, α is the amplitude or the
vertical dimension of the irregularity, $p = 2\pi/\Delta$ is the wave
number and Δ is the horizontal dimension of the irregularity.
Under the above assumptions, it is shown that the change in

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109-10-2/19

Influence of the Large Irregularities of the F_2 -layer on its Radio Wave Reflection Coefficient.

the distance between the observation point and the reflection point of the n -th ray at $\Delta r_n = r_n - h$, is expressed by:

$$\frac{\Delta r_n}{a} = \sin \xi + \frac{\chi}{2} \cdot \cos^2 \xi \quad (2)$$

where $\xi = p(x + x_0)$ and $\chi = ap^2 h$. On the other hand, the relative change in the amplitude of the reflected wave is expressed by:

$$A_1 = \frac{1}{1 + \chi \sin \xi} \quad (4)$$

From Eqs. (2) and (4), it is possible to determine the phase and the amplitude of the field at the observation point. The amplitude of the second reflection is also of some interest, but this can only be determined at the points where the radius of curvature of the reflecting surface is $\rho = \pm \frac{1}{ap^2}$.

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Influence of the Large Irregularities of the F_2 -layer on its Radio Wave Reflection Coefficient.

The above theory was checked experimentally by means of an equipment which permitted the simultaneous measurement of the phase and the amplitude of the primary and secondary reflected signals. The amplitudes could be measured with an accuracy of about 10%, so that the reflection coefficient could be determined with an accuracy of 20%. The experimental observations of the two amplitudes and the phase were recorded photographically (see Fig.3). From the analysis of the above, it was found that 89% of the maxima of the amplitudes of the first reflection and 92% of the amplitude maxima of the secondary reflection coincided with the maxima of the phase displacement. The calculated reflection coefficient gives values ranging from 0.25 to 5.4. Where the reflection coefficient was greater than unity, the phase variation was a maximum (85% of the cases). This seems to indicate that such anomalous values of the coefficient are due to large irregularities. There are 5 figures and 5 references, 1 of which is Slavic.

ASSOCIATION: Physics Faculty of the Moscow State University imeni M.V. Lomonosov. (Fizicheskiy Fakul'tet Moskovskogo gosudarstvennogo Universiteta im. M.V. Lomonosova)

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109-10-2/19

Influence of the Large Irregularities of the F_2 -layer on its Radio
Wave Reflection Coefficient.

SUBMITTED: July 5, 1956.

AVAILABLE: Library of Congress.

Card 4/4

GUSEV, V.D.; VINOGRADOVA, M.B.; ~~DRACHEV, L.A.~~; MIRKOTAN, S.F.

Study of the heterogenous of the structure of the ionosphere.
Vest. Mosk.un. Ser.mat.mekh.astron. fiz. khim. 12 no.4:129-136
'57. (MIRA 11:5)

1.Kafedra rasprostraneniya, izlucheniya i kanalizatsii
elektromagnitnykh voln Moskovskogo gosudarstvennogo universiteta.
(Ionosphere)

SOV/120-58-2-15/37

AUTHOR: Drachev, L. A.

TITLE: Measurement of Variations in the Phase Path of a Signal
Reflected from the Ionosphere (Izmereniye variatsiy fazovogo
puti signala, otrazhennogo ot ionosfery)

PERIODICAL: Priory i Tekhnika Eksperimenta, 1958, Nr 2, pp 56-61
(USSR)

ABSTRACT: In Ref.1 a description is given of a method of studying irregularities in the ionosphere by recording variations in the phase path of a signal reflected from the ionosphere. In the present paper the apparatus used for this purpose is described. The block diagram of the apparatus is shown in Fig.1. The emitted radio pulse is produced by a master generator working in conjunction with a power amplifier and a modulator. The master generator works continuously which is necessary in order to obtain a standard voltage relative to which the phase of the reflected signal is measured. The output of the master oscillator is amplified by a wide-band amplifier. The powerful radio pulse thus produced is radiated by an antenna connected to the output of the amplifier. The signal reflected

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SOV/120-58-2-15/37

Measurement of Variations in the Phase Path of a Signal Reflected from the Ionosphere.

from the ionosphere is received by the same antenna and after amplification is fed into a phase comparison circuit into which the output of the master oscillator is also applied. Since the carrier of the received signal is reduced to intermediate frequency it is necessary to reduce the output of the master oscillator to the same frequency by means of a heterodyne so that the phases of the two signals can be compared. The phase comparison circuit is shown in Fig.2. The circuit of the power amplifier is shown in Fig.4 and the circuit of the receiver in Fig.5. Fig.6 shows the pulse shaping circuit. The master generator employed in the transmitting part is of type GSS-6. The wide-band amplifier has a symmetrical output loaded with a rhombic antenna with a wave impedance of 600 ohms. Maximum power output at a working frequency of 3 megacycles/sec is 3 kilowatts, the repetition frequency being 50 cycles/sec and pulse length 150 μ sec. The receiver has a working range of 1-18 megacycles/sec. The reflected and standard pulses are displayed on a screen of an oscilloscope.

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SOV/120-58-2-15/37

Measurement of Variations in the Phase Path of a Signal Reflected from the Ionosphere.

Under best conditions statistical phase fluctuations may be measured to within 1° . There are 7 diagrams and 2 Soviet references.

ASSOCIATION: Fizicheskii fakul'tet MGU (Department of Physics of the Moscow State University)

SUBMITTED: July 9, 1957.

Card 3/3

1. Signals--Analysis 2. Ionosphere--Reflective effects

MIRKOTAN, S.F.; DRACHEV, L.A.

Studying large scale inhomogeneities in the ionosphere by the
phase method. Mezhdunar.geofiz.zod no.4:56-57 '58.
(MIRA 11:11)

(Ionospheric research)

3(6), 3(7)

SOV/20-123-5-13/50

AUTHORS: Gusev, V. D., ~~Drachev, L. A.~~, Mirkotan, S. F., Berezin, Yu. V.,
Kiyanovskiy, M. P., Vinogradova, M. B., Gaylit, T. A.

TITLE: The Structure and the Motions of Large-Scale Inhomogeneities
in the Ionosphere Layer F_2 (Struktura i dvizheniya krupnykh
neodnorodnostey v ionosfernom sloye F_2)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 817-820
(USSR)

ABSTRACT: The authors invented an integral phase method for the re-
cording of great inhomogeneities and their motions. This
method is free from the deficiencies of other methods and con-
sists of the recording of the variations of the phase way
of the reflected signal. For small inhomogeneities, these
variations are of the order 2π , and for large-scale inhomomo-
geneities - of the order $40 - 200 \pi$. This method has a high
precision (which amounts to dozens of meters) and a high re-
solving power. This permits the use of statistical methods
in the investigation of large-scale inhomogeneities. The
apparatus for the recording of phase variations consists

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The Structure and the Motions of Large-Scale Inhomogeneities in the Ionosphere Layer F_2

of receiving and transmitting ionosphere stations with phase indicators and photoindicators. The phase variations are recorded on a cinematographic film. The authors used 3 recording apparatus placed in 3 points of the Earth's surface, these points formed a triangle of 30 - 40 km side length. In each of these points the variations of the phase of the reflected signal were recorded. In this way, the authors found a regular smooth curve for $\varphi_p(t)$ on which random-character variations $\varphi(t)$ (which are due to the presence of inhomogeneities and their motions in the ionosphere) are superimposed. The term $\varphi_p(t)$ is due to the variation of the height distribution of the ionization of the ionospheric layers from day to night. A suitable utilization of the results permits a separation of φ_p and φ . (These 2 quantities are not exactly defined in this paper). An analysis of the behavior of $\varphi(t)$ gives data concerning the dimensions, the shape, and the motions of the inhomogeneities. The following parameters were found: The velocity V_d of the horizontal drive in the ionosphere and

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The Structure and the Motions of Large-Scale Inhomogeneities in the Ionosphere Layer F_2

its direction which is determined by the angle β ; the average shape of the ionosphere inhomogeneities which is determined by the "characteristic ellipse"; the radius of correlation and the spatial dimensions of the inhomogeneities Δ ; the time of spreading τ_c or the parameter of spreading δ of the inhomogeneities. By analysis of the variations of the phase and of the rate of phase variation the direction of the reflected radiowaves could be determined. The correlation functions were calculated by means of an electronic computer of the type "Strela". All the above-discussed results concern the layer F_2 ; they were found from May 1956 to October 1957. The large-scale inhomogeneities have a distinctly anisotropic shape; the dimensions depend on the direction. Numerical values are given for the dimensions of the inhomogeneities. The values of V_d are within the interval 0 - 40 km/min, and most frequently the values 8 - 10 km/min are found. The values of V_d increase only slightly from night to day. Because of

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The Structure and the Motions of Large-Scale Inhomogeneities in the
Ionosphere Layer F_2

the presence of inhomogeneities in the ionosphere, the normal to the front of the reflected wave deviates from the vertical direction. For δ and τ_c the average values $\delta \sim 0.3$ (day) and $\delta \sim 0.58$ (night) and τ_c were found. There are 1 figure, 1 table, and 6 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: July 18, 1958, by N. N. Bogolyubov, Academician

SUBMITTED: July 17, 1958

Card 4/4

89772

S/169/61/000/002/026/039
A005/A001

9.9110 (also 1041, 1046)

Translation from: Referativnyy zhurnal, Geofizika, 1961, No. 2, p. 42, # 20295

AUTHORS: Gusev, V. D., Mirkotan, S. F., Drachev, L. A., Berezin, Yu. V.,
Klyanovskiy, M. P.

TITLE: Results of the Investigation of the Parameters of Large-Scale Inhomogeneities of the Ionosphere by the Phase Method

PERIODICAL: V sb.: "Dreyfy i neodnorodnosti v ionosfere", No. 1, Moscow, AN SSSR, 1959, pp. 7-21 (English summary)

TEXT: The method of measuring and processing the materials of observations of the large-scale inhomogeneities in the F2-layer of the ionosphere is described in detail. The time variations of the phase of the pulse signal reflected by the F2-layer of the ionosphere were recorded by three spaced stations. The records are being processed by the correlation method with electronic computers. The following inhomogeneity parameters were determined: apparent drift speed V' , characteristic speed V^c , the speed of chaotic variations V^c , the actual drift speed V_d , the parameters of the so-called "characteristical" ellipse, which determine the anisotropy degree of inhomogeneities, their dimensions and time of

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S/169/61/000/002/026/039
A005/A001

Results of the Investigation of the Parameters of Large-Scale Inhomogeneities of the Ionosphere by the Phase Method

"broadening", and parameter V_c/V_d allowing the estimation of the part of the chaotic variations. The results are presented of investigations in the period from January 1957 to May 1958. It is shown that inhomogeneities in the horizontal direction are anisotropic; the direction of the larger dimension (the major axis of the characteristic ellipse) approximately coincides with the meridian; the average ratio of the major and minor dimensions (the eccentricity of the ellipse) is about 2; this value and the direction of the major axis are nearly independent of the time during 24 hours; the average value of the major axis is about 500 km by night and about 200 km by day. The values of drift speed of inhomogeneities mostly found are 8 - 10 km/min; the direction of drift is: in the evening and by night northward, by day and in the morning southward. The "broadening" of inhomogeneities proceeds more rapid by day than by night. The speed of chaotic variations V_c exceeds the drift speed on the average by 1.5 times. A comparison is carried out of the results obtained with the values formerly known. It is shown that the characteristics of the large-scale and small-scale inhomogeneities (anisotropy, drift, chaotic variations) agree with each other, which points out

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of the Ionosphere by the Phase Method

the possibility of the connection and common origin of the processes controlling
the formation and motion of all inhomogeneities in the ionosphere. There are
15 references.

E. Kazimirovskiy

Translator's note: This is the full translation of the original Russian abstract.

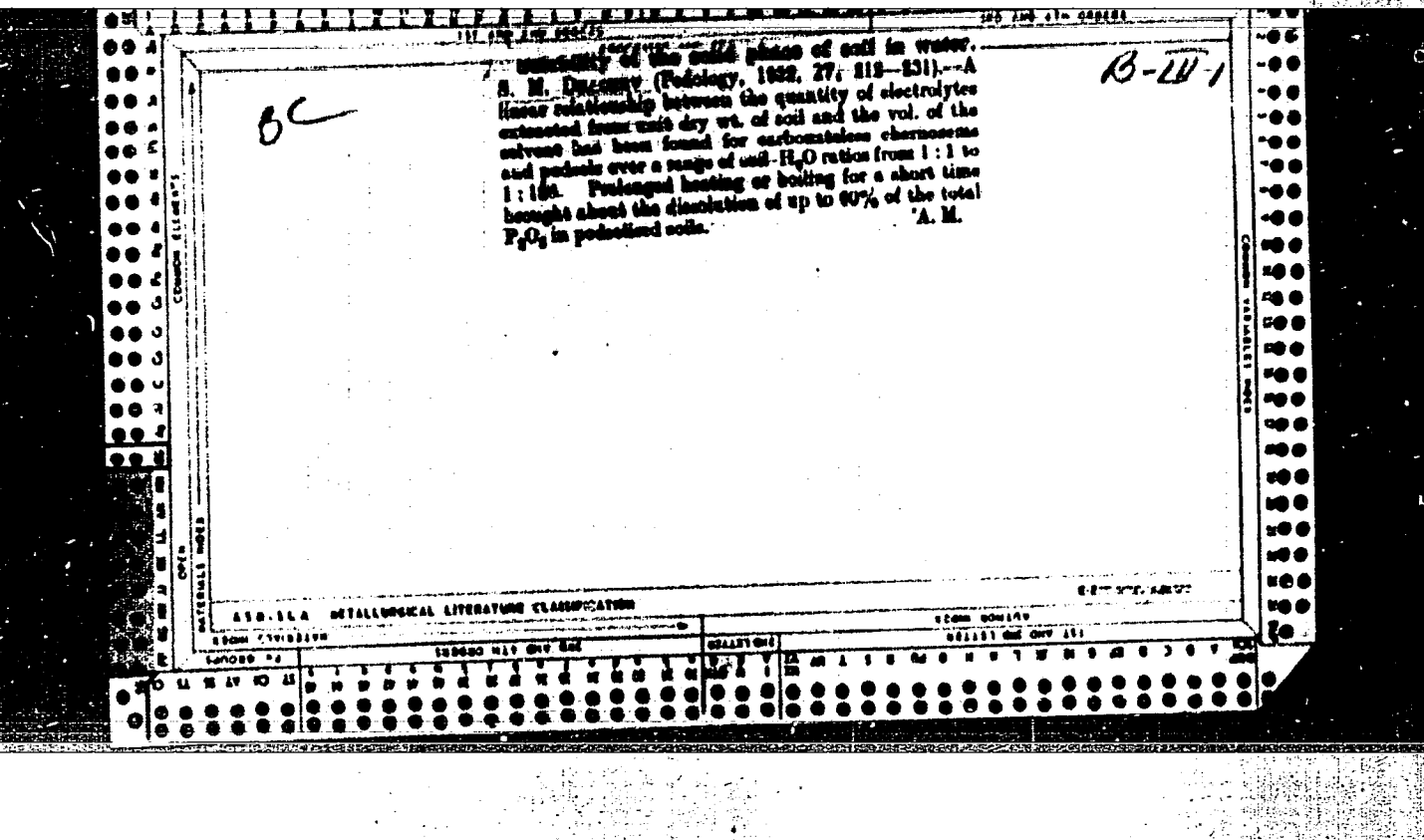
Card 3/3

BENDRIKOV, G.A.; KRASNUSHKIN, P.Ye.; REYKHRUDEL', E.M.; POTEMKIN, V.V.;
 MUSTEL', Ye.R.; RZHEVKIN, K.S.; IVANOV, I.V.; KHAZLAMOV, A.A.;
 TIKHONOV, Yu.V.; STRELKOVA, L.P.; KAPTSOV, L.M.; ORDANOVICH,
 A.Ye.; KHOKHLOV, R.V.; VORONIN, E.S.; BERESTOVSKIY, G.N.; KRASNO-
 PEVTSKY, Yu.V.; MINAKOVA, I.I.; YASTREBTSEVA, T.N.; SEMENOV, A.A.;
 VINOGRADOVA, M.B.; KARPEYEV, G.A.; DRACHEV, L.A.; TROFIMOVA, N.B.;
 SIZOV, V.P.; RZHEVKIN, S.N.; VELIZHANINA, K.A.; NESTEROV, V.S.;
 SPIVAK, G.V., red.; NOSYREVA, I.A., red.; GEORGIYEVA, G.I., tekhn.
 red.

[Special physics practicum] Spetsial'nyi fizicheskii praktikum.
 Moskva, Izd-vo Mosk.univ. Vol.1. [Radio physics and electronics]
 Radiofizika i elektronika. Sost. pod red. G.V.Spivaka. 1960.
 600 p.

(MIRA 13:6)
 1. Professorsko-prepodavatel'skiy kollektiv fizicheskogo fakul'teta
 Moskovskogo universiteta im. M.V.Lomonosova (for all except Spivak,
 Nosyreva, Georgiyeva).
 (Radio) (Electronics)

1ST AND 2ND COVER																										3RD AND 4TH COVER																									
SUBJECTS AND PROPERTIES INDEX																																																			
<p>Investigation of the chemical-bacteriological processes in the water medium in presence of nitrocellulose. B. M. DRACHOV. <i>J. Applied Chem. (U.S.S.R.)</i> 4, 444 (1951). — In storing nitrocellulose under water reducing conditions are produced which might be remedied by aeration of the water or by introducing Hg compds. CHCl₃ is considerably less effective than Hg.</p> <p style="text-align: right;">V. KALICHYANET</p>																																																			
<p>ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			



15

Alterations in the composition and concentration of a soil solution in relation to moisture. S. DRACHET AND V. ALEXANDROVA. *Pedology* (U. S. S. R.) 27, No. 1, 24-40 (1953).—A no. of soil types—from a podzol to a solonchaks—were air-dried and made up to various moisture conditions; soil solns. were obtained by means of a hand press, and analyses were made of Ca, K, nitrite, nitrate and phosphate. The cond. of the soln. was also detd. The amt. of sol. K increased with the increase in moisture content of podzols under cultivation and of a solonchaks like chernozem. The quantity of phosphate increased 1.5-2.0 times when the moisture was increased by 20-30%. The concn. of Ca and nitrate decreased with an increase in moisture content. In general it was found that the concn. of electrolytes in the free soil soln. drops in direct proportion to the quantity of the total water in the soil.

J. S. Jovra

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

FOOTNOTES AND REFERENCES INDEX		B-III-1	
<div style="position: absolute; top: 10px; left: 10px; font-size: 2em;">BC</div> <div style="position: absolute; top: 200px; left: 100px; font-size: 0.8em;"> <p>Influence of calcination and sintering on the phosphorus in a peatland soil. S. M. DRACHV (Moscow, U.S.S.R. 240-251). The P_2O_5 content (I) decreased after 12 hours' sintering, but the application of long incineration (II) even under sintering the phosphorus are retained more readily. Phosphorus compounds of the leached type are found in much amount in the soil (< 1 mg. per kg.). A. M.</p> </div>			
1950-51 METALLURGICAL LITERATURE CLASSIFICATION		1950-51	
1950-51		1950-51	

Alkaline phosphate method for the determination of the hardness of natural water. S. Drach and T. Karelskaya. *J. Applied Chem.* (C. S. S. R.) 6, 1460-1464 (in German 1944) (1938).—Titrate 50 cc. of water under investigation with 0.05 N HCl using methyl orange for indicator and removing CO₂ by drawing through the solution until the pink color obtained remains unchanged. Treat the neutralized water with CaCl₂ sufficient to increase the hardness by 35 German degrees and with 10 cc. of alk. phosphate soln. (100 cc. of 4% NaH₂PO₄·7H₂O and 110 cc. of 0.1 N NaOH), let stand for 30-40 min., warm to 40-50° and filter. Titrate a 50-cc. aliquot as above. The hardness of water in German degrees is calculated from $X = [(A - 2B)/K \times 2.1 \times 2] - 25$, where A is vol. in cc. of 0.05 N HCl used for the titration of 10 cc. of alk. phosphate soln., B that for the titration of residual alkali, 2.1 is the coeff. converting the results to German degrees, K is a correction coeff. for the soln. If the initial hardness of water is 30 German degrees then it is not necessary to add any CaCl₂, and if it is over 60 then 20 cc. of alk. phosphate must be added. The sensitivity of this method is 0.1-0.2 German degree and the accuracy is 0.3-0.4 German degree. The errors in the phosphate method are (1) poor pptn. of Mg₃(PO₄)₂, yielding a finely dispersed ppt. that passes through the filter paper and (2) influence of CO₂ upon the completeness of the pptn. and upon the accuracy of neutralization of the latter before its pptn. See references.

A. A. Podgorniy

A. A. Podgornyy

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

CA 14

Biochemical characteristics of the Uchinsk water reser-
voir. S. M. Drachov and V. N. Kozlov. *Higiena i
Sankhigiya* 1938, No. 11-12, 28-30; *Khim. Referat
Zhur.* 1939, No. 6, 48. W. R. Henn

ASH 51.4 METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

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701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800

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901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

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1ST AND 2ND GROUPS
 PROCESSES AND PROPERTIES INDEX

15

CA

BIOCHEMICAL OXIDATION OF THE ORGANIC MATTER OF SOIL SUBS-

pensions. S. M. Drachey and O. V. Mityagina. *Pe-
 zology* (U. S. S. R.) 1939, No. 11, 17-33 (in English, 34).
 Duplicate soil samples about 5 g. per l. are placed in glass-
 stoppered bottles, water is added and the mixt. shaken
 In one set of bottles the oxygen is detd. immediately
 The other set is kept in a thermostat at 20° for several
 days after which the oxygen is detd. The effects of drying,
 fertilization, particle size, temp., shaking of mixt. and
 type of soil were investigated. J. S. Joffe

ASS-SEA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED
 INDEXED
 SERIALIZED
 FILED

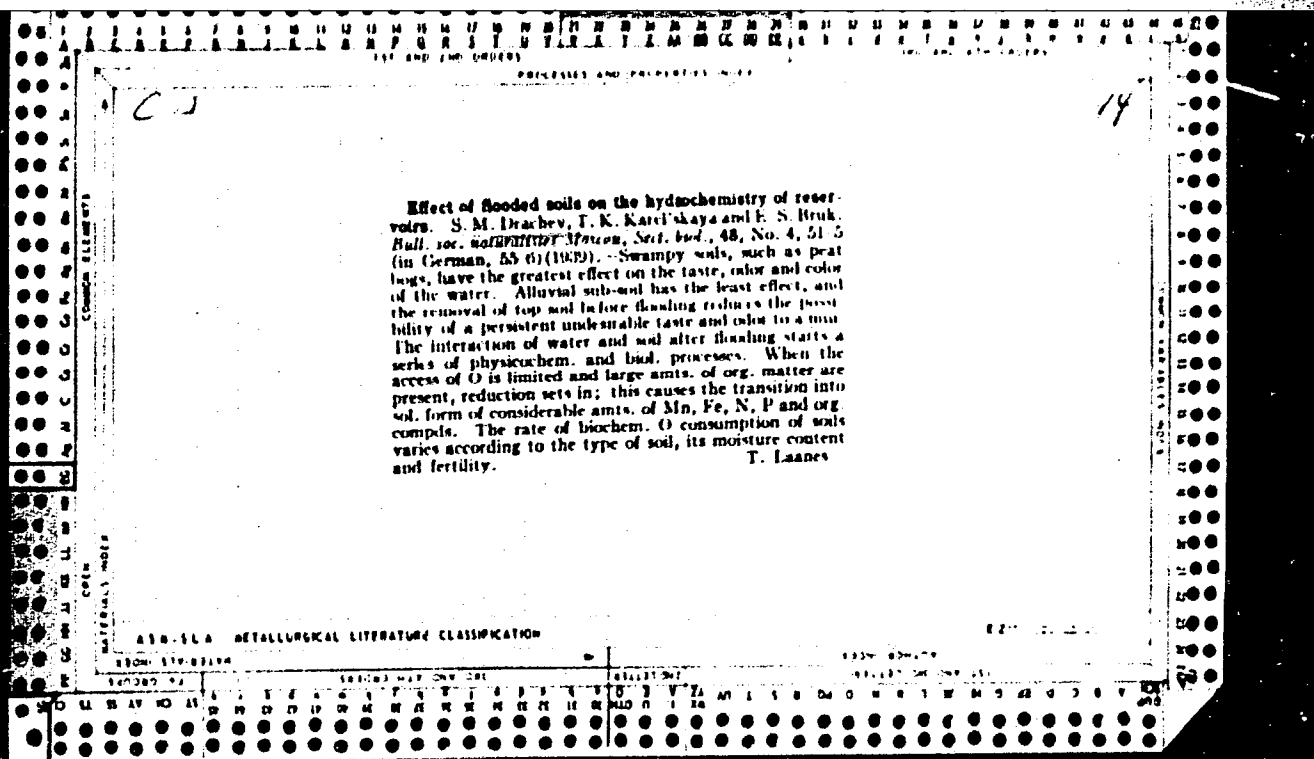
DIVISION OF
 TECHNICAL SERVICES

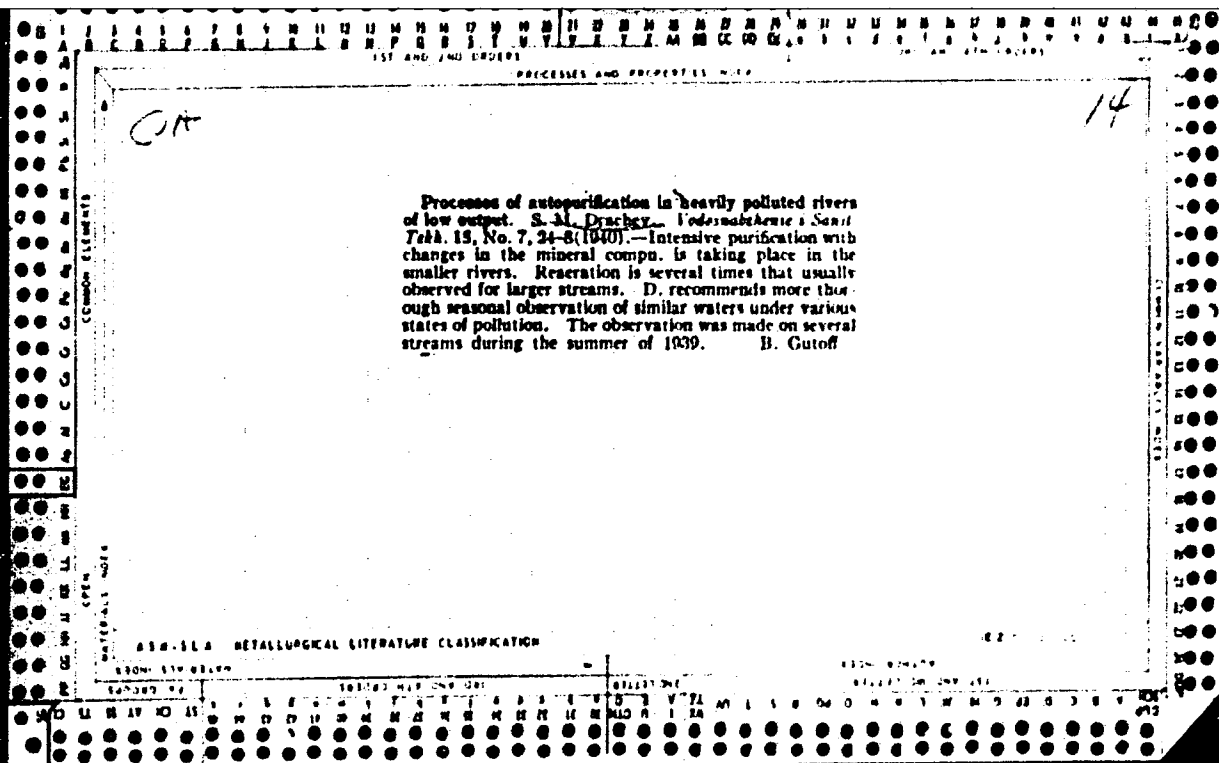
U. S. DEPT. OF COMMERCE
 BUREAU OF MINES

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Biochemical oxidation of the organic substance of surface waste water. S. M. Drachov, *Vostochno-Sibirsk. Tekhn. Zhur.*, 1939, No. 11-12, 87-91; Khim. Referat. Zhur., 1940, No. 7, 35-6.—Expts. for detg. the consumption of O by various soils suspended in water for 2-48 days indicate that the greater part of O ($\frac{1}{2}$ for peated soils) is used up by the dissolved and finely dispersed particles of the soil (smaller than 0.5 μ). The oxidation process takes place most intensively during the initial days of the prepn. of suspensions. A max. absorption is observed in peat soils and a min. absorption in the substratum layer,

although no direct proportionality between the content of the org. substance and the consumption of O was observed. The air-dry specimens of soils absorb 2-5 times more O (during 5 days) than do the fresh soil specimens. The consumption of O by the soil suspensions is directly proportional to the degree of the contamination of the soil. It is concluded that the consumption of O is caused by the biochem. oxidation processes of the org. substance of the soil, in particular by the nitrification process. W. R. H.





Hydrochemical features of the rivers Dubna, Sostra, Jachroma,
Izucha, and Volguscha in 1933—1935. B. A. Skopintsev and S. M.
Dzalashev (*Hydrochem. Mat.*, 1941, 12, 155—157).—The above rivers
are tributaries of Upper Volga. J. J. B.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				
<div style="display: flex; justify-content: space-between;"> 1st and 2nd copies 1st and 2nd copies </div> <div style="text-align: center; margin-top: 10px;"> PROCESSES AND PROPERTIES INDEX </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> CA 14 </div> <div style="text-align: center; margin-top: 100px;"> <p>A biochemical index of the contamination of water reservoirs. S. M. Lhachev. <i>Lab. Trakt</i> (U. S. S. R.) 10, No. 4, 15 (1941). The biochem. index of contamination is the ratio of the biochem. utilization of O₂ (for 5 days) to the oxidizability according to Kubel. The biochem. utilization of O₂ in tap water and in artesian well water varies considerably. For underground water the biochem. index is a valuable criterion for sanitary evaluation. Three references.</p> <p style="text-align: right;">W. R. Henn</p> </div> <div style="margin-top: 20px;"> <p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"> TECHN. SYMBOLS SYMBOL NO. SUBJECT MAT. ONLY CTR. </td> <td style="width: 50%; text-align: center;"> ILLUSTRATIONS ILLUSTR. ONLY CTR. </td> </tr> <tr> <td style="text-align: center;"> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 </td> <td style="text-align: center;"> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 </td> </tr> </table> </div>																																																																																																				TECHN. SYMBOLS SYMBOL NO. SUBJECT MAT. ONLY CTR.	ILLUSTRATIONS ILLUSTR. ONLY CTR.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
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PROCESSING AND PROPERTY INDEX																																																			
<div style="display: flex; justify-content: space-between;"> CA 14 </div> <p>Colorimetric determination of the hardness of water. S. M. Drachy. <i>Zashchita Lab. 11</i>, No. 1, 10 (1913).</p> <p>A method for the detn. of hardness of water is based on the ability of tropaeolin OO to form complex. with alk. earth met- als. Prep. tropaeolin OO by dissolving 0.1 g. of tropaeolin in 50 ml. of alc. and adding distd. water to 100 ml. (dis- regarding the somewhat incomplete soln. of tropaeolin in water); as an indicator for the pH interval of 1.3-3.2, it changes from red to yellow. Prep. the scale for the detn. of hardness by dilg. natural water with various quantities of distd. water and detg. the Mg and Ca salts gravimetri- cally. Place 1 ml. of the water sample in a clean dry test tube of the same diam. as that used for the scale, add ex- actly 0.5 ml. of the tropaeolin soln., mix, and match the color with the scale of up to 10° after 1-2 min. Add 0.5 ml. more of tropaeolin if the hardness of the water is higher than 10° and match the color with a scale of from 10 to 20°. At higher degrees of hardness the water must be dild. be- fore the detn. Hardness up to 44° can be detd. to within 2-3°. The relative contents of Ca and Mg have no effect on the detn. Natural waters with comparatively low hardness can be detd. to within 1.0-1.5°. The sensi- tivity of the method is 0.5°. Five references.</p> <p style="text-align: right;">W. R. Henn</p>																																																			
<div style="display: flex; justify-content: space-between;"> ASH-51-A METALLURGICAL LITERATURE CLASSIFICATION 11-11-11 </div>																																																			

DRACHEV S. M. PROF
DRACHEV, S. M.

FA 170167

USSR/Medicine - Hygiene and Sanitation
Water, Analysis

Jul 50

"Field Laboratory for Sanitation Analysis of Water
in Field Conditions," Prof S. M. Drachev, S. D.
Zamyslova

"Gig 1 San" No 7, pp 45-48

Describes field kit for analysis of water in
reservoirs and ponds. Kit is equipped to deter-
mine color, chemical content, etc. Includes
3 photographs and drawing.

170167

CH 14

Problems of drinking and industrial water supply in connection with construction of Main Turkmen Canal. S. M. Drachey. (Ministry Health, Moscow). *Gigiena i Sanit.* 1952, No. 7, 3-9. -- The river Amu-Dar'ya which is to be the main water supply of the Main Turkmen Canal which is to be the water-supply source for Central and Western Turkmen Republic has satisfactory bacteriol. properties for general use of its water. However, high level of suspended matter requires long settling and coagulation procedures. Chlorination of drinking water for use by the construction personnel is essential and the selection of the course of the canal is urged to be made so as to assure the supply of water with mineral content under 1 g./l., which is possible as a result of survey. Since the canal is to serve as a water carrier, measures against industrial pollution are strongly recommended. G. M. Kozolapoff

"APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R0004111100

APPROVED FOR RELEASE: Friday, July 28, 2000

CIA-RDP86-00513R00041111001

DRACHEV, S.M.; SOSUNOVA, I.N.

Conversion of organic matter in a polluted river having a regulated flow. Trudy Gidrobiol.ob-va 5:109-117 '53. (MLRA 7:5)

1. Tsentral'nyy nauchno-issledovatel'skiy sanitarnyy institut im. F.F.Brismana. (Fresh-water biology)

DRAFT

FD-1525

USSR/Medicine - Conferences

Card 1/1 : Pub 122-10/14

Author : Drachev, S. M., Professor

Title : Scientific Conference of the Institute of General and Communal Hygiene, Academy of Medical Sciences, USSR, for the study of the sanitary condition of the Canal imeni Moscow

Periodical : Vest. AMN SSSR, 4, 57-58, Oct-Dec 1954

Abstract : The Institute of General and Communal Hygiene, Academy of Medical Sciences, USSR, held a meeting on January 20, 1954 jointly with the workers of the Severnaya Water Supply Station of Moscow and representatives of laboratories of the Sanitation Department of the Canal imeni Moscow. State Sanitation Inspector, Ya. A. Mogilevskiy, told the delegates that the quality of water has been satisfactory and met the requirements set for centralized water supply systems by the State All-Union Standard (GOST). The conference endorsed the work of all agencies connected with maintenance of sanitary conditions and adopted a resolution indicating the expedience of making a study of the quality of water along the entire length of the canal, paying particular attention to presence of organic matter and coloration.

Institution :
Submitted :